NAMAN YESHWANTH KUMAR

https://www.linkedin.com/in/namany | https://github.com/naman-ranka | nyeshwan@asu.edu | (623) 249-1265

EDUCATION

Master of Science **Expected: May 2026**
Arizona State University - Computer Eng (GPA 3.8/4.0) **Tempe, AZ**

- Relevant course work: VLSI, Foundations of Algorithms, Reinforcement Learning in Robotics, Artificial Intelligence, Perception in Robotics, Hardware Co-design, SoC Design, Advanced Computer Architecture

Nanodegree - Self-Driving Car Engineer **February 2023**
Udacity

- Key Areas: Machine Learning, Sensor Fusion, Computer Vision, Path Planning, and Control, with hands-on projects in object detection, trajectory tracking, and autonomous vehicle motion

Bachelor of Engineering **June 2022**
BMS College of Engineering - Electrical and Electronics Eng **Bengaluru, India**

TECHNICAL SKILLS

Programming Languages: Python | C++ | JavaScript | SQL | MATLAB | Shell Script
Backend Development: Django | Object-Oriented Programming | RESTful APIs | Docker | Git | AWS | Database Design
Data Structures & Algorithms: Machine Learning | Data Analytics | Computer Vision | Statistical Analysis | Algorithm Design
Development Tools: TensorFlow | PyTorch | Simulink | CoppeliaSim | ROS | Arduino | Raspberry Pi | SystemVerilog

WORK EXPERIENCE

Software Developer **October 2022 - April 2024**
NCR GOLD **Bengaluru, India**

- Designed and deployed a maintainable Django backend platform to streamline inventory and billing for a wholesale jewelry business; processed 10,000+ orders with well-tested, readable code following object-oriented programming principles.
- Containerized applications using Docker and integrated AWS cloud deployment, implementing scalable backend architecture with code reviews and version control practices.

Research Intern **October 2021 - August 2022**
Indian Institute of Science **Bengaluru, India**

- Led the Propulsion Circuit Team, optimizing a 1.5kW axial flux BLDC motor with Ansys Maxwell; boosted efficiency and responsiveness by upgrading material and coil designs and implementing a new FOC system.
- Conducted advanced research on speed control algorithms and battery management systems for eVTOL aircraft leveraging Simulink, contributing to notable improvements in efficiency and reliability of aircraft propulsion systems.

PROJECT EXPERIENCE

Trezzit - Full Stack Bill Splitting Application **February 2025 - Present**

- Developed Trezzit as a side project - a full-stack expense management application with Django backend implementing object-oriented design principles and RESTful APIs for expense categorization and bill splitting functionality.
- Built maintainable, well-tested code architecture supporting 120+ active users, managing project priorities and deliverables independently while gathering user feedback.
- Currently scaling the platform through iterative development, focusing on backend performance optimization and code quality. Tech Stack: Django | Python | RESTful APIs | React | Docker

Intel Automated Self-Checkout (Open Source Contributor) **January 2025 - February 2025**

- Developed a maintainable Python framework to publish and analyze LiDAR sensor data for autonomous checkout systems; successfully merged contributions after comprehensive code reviews with cross-functional team collaboration.
- Participated in collaborative development using Docker and CI/CD pipelines, working with distributed teams to deliver well-tested, production-ready code.

Raspberry Pi Self-Driving Car **February 2022 - July 2022**

- Developed an autonomous vehicle implementing data structures and algorithms for real-time lane detection and traffic sign recognition, using Python and C++ with object-oriented programming principles on Raspberry Pi and Arduino platforms.
- Collaborated in a cross-functional team to design efficient algorithms for data collection and processing; project received the Best Project Award in the EEE Department among approximately 40 submissions.

AWARDS & HONORS

- Won the 'Best Use of AI' award at Strategy X DevHacks'25 at ASU for developing AdaptED AI, a platform leveraging Google's Gemini AI to generate personalized learning paths and resources for students.
- Secured second place in the Hack SoDA 2024 at ASU with a team of four, developing PassGen, a secure and offline Chrome Extension for generating unique passwords, during a 24-hour hackathon sponsored by Amazon.
- Ranked among the Top Ten teams in the e-Yantra national-level robotics competition organized by IIT Bombay, for designing and developing a self-balancing dairy bike on CoppeliaSim, February 2022.